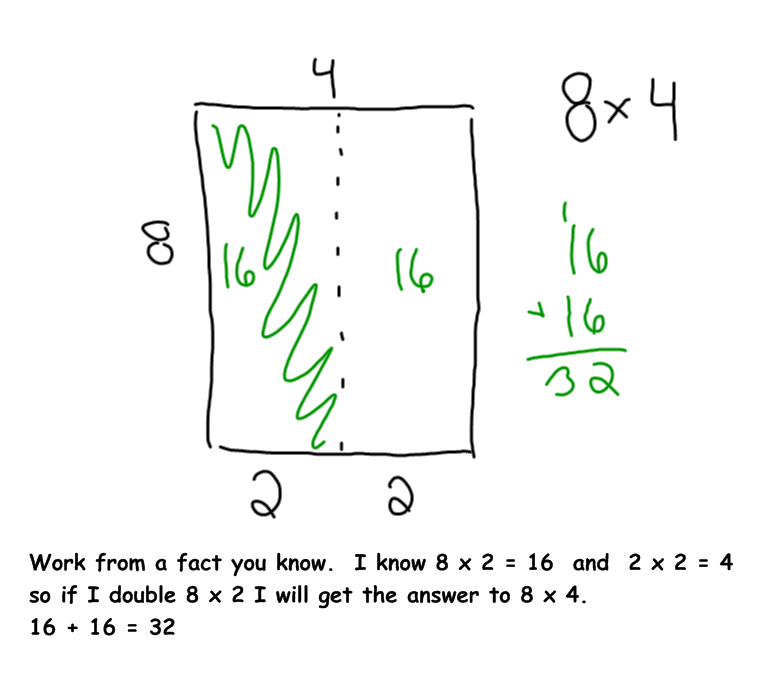


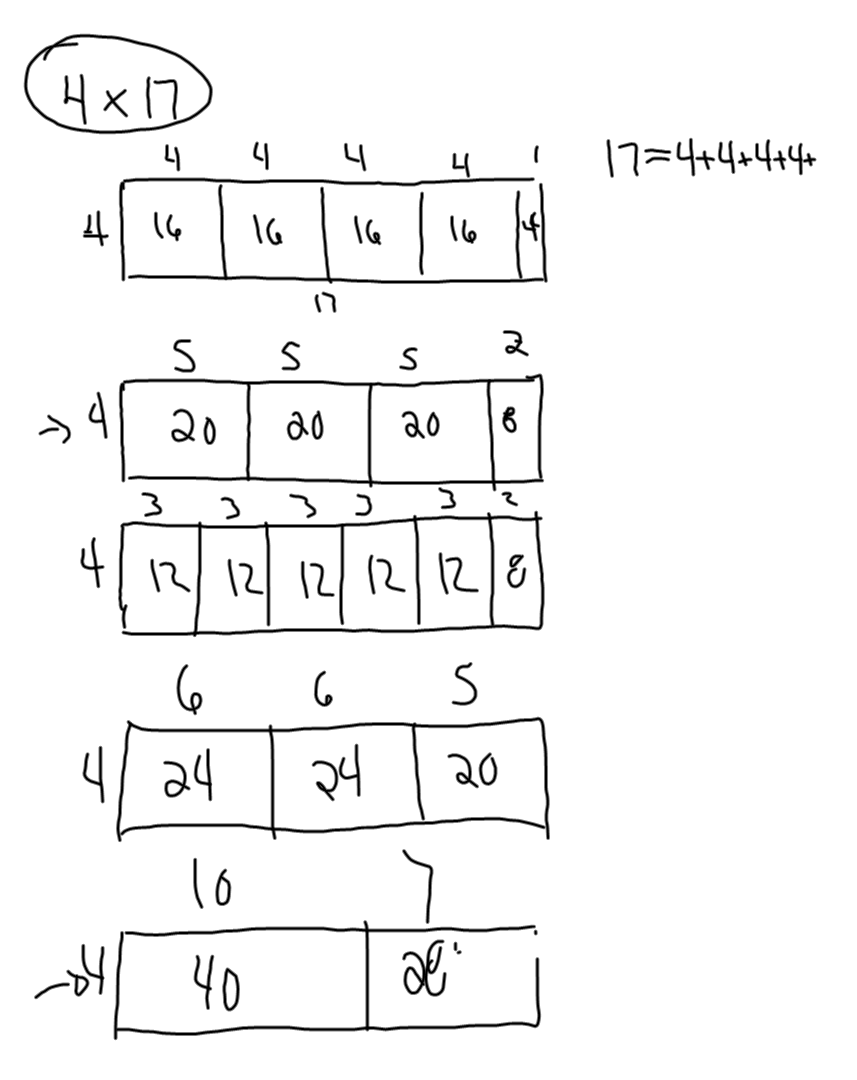
**Repeat doubling**

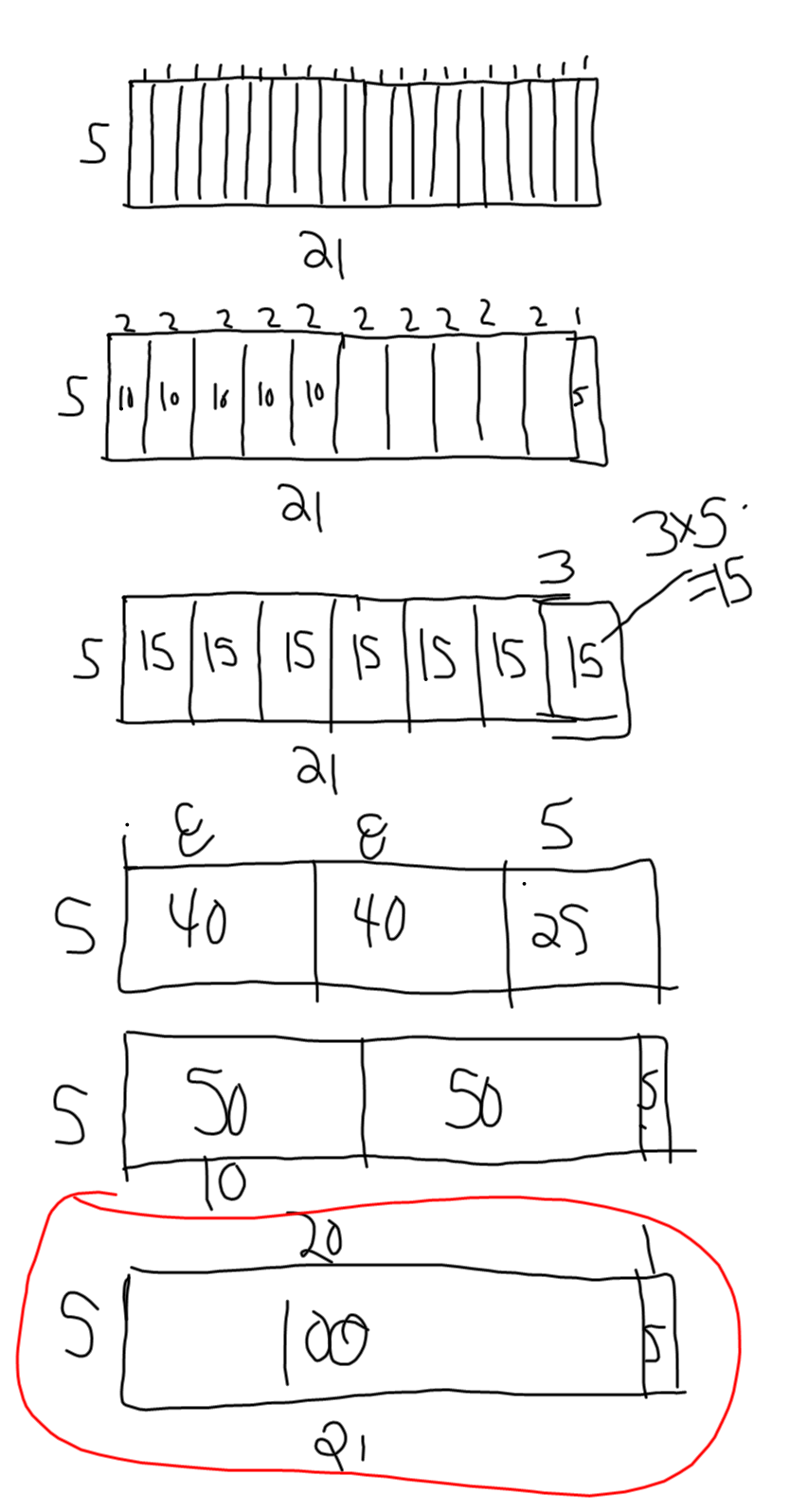


**Other examples of breaking up factors so you can use the facts you know.**

Solve 4 x 17.

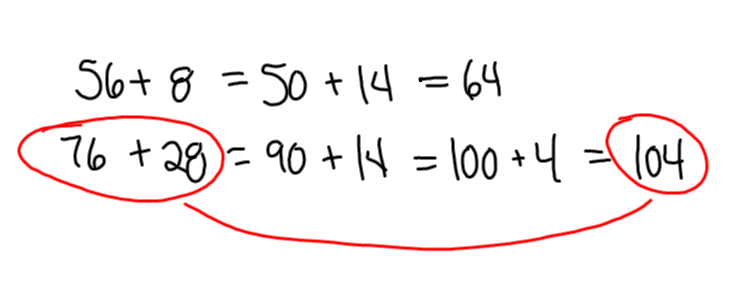
This question was done using grid paper, which you can use for the test.



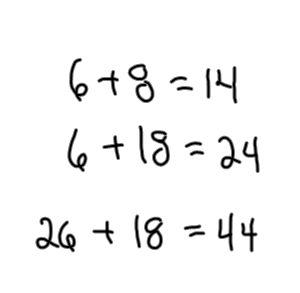
Remember to look for the most efficient strategy. 

The last box array is broken up the least, so if the most efficient strategy. All the others are effective strategies., you will get the answer, though it will take you longer and you may make calculation errors.

Remember each part of an equation must be the same as the other parts.

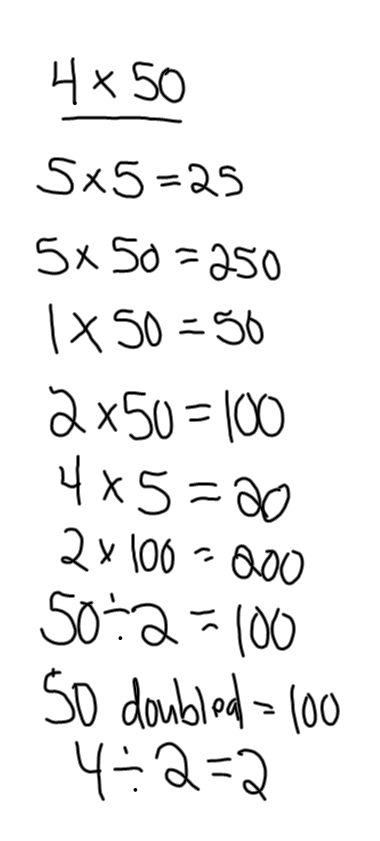


If you want to add on to another addition sentence, please write a new sentence.



Number strings

Any facts that help you solve a more challenging fact.



**Bow tie method**

Solve 34 x 45.

34 = 30 + 4

45 = 40 +5

40 x 4 = 160

30 x 5 = 150

30 x 40 = 1200

4 x 5 = 20

160 + 150 + 1200 + 20 = 1530

1. Break the numbers into expanded form
2. Multiply each part in the “bow tie” way.
3. Add all the products together.